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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/771,383

DATE: 12/20/2001
TIME: 14:15:05

Input Set : A:\2368-12.ST25.txt
Output Set: N:\Crf3\12202001\I771383.raw

3 <110> APPLICANT: Parris, Kevin
 4 Somers, William
 5 Tam, Amy
 6 Lin, Laura
 7 Stahl, Mark
 9 <120> TITLE OF INVENTION: CRYSTAL STRUCTURE OF ACYL CARRIER PROTEIN SYNTHASE
 10 AND ACYL CARRIER PROTEIN SYNTHASE COMPLEX
 12 <130> FILE REFERENCE: 2368/12
 14 <140> CURRENT APPLICATION NUMBER: US 09/771,383
 16 <141> CURRENT FILING DATE: 2001-01-25
 18 <150> PRIOR APPLICATION NUMBER: US 60/178,639
 20 <151> PRIOR FILING DATE: 2000-01-28
 22 <160> NUMBER OF SEQ ID NOS: 13
 24 <170> SOFTWARE: PatentIn version 3.0
 26 <210> SEQ ID NO: 1
 28 <211> LENGTH: 121
 30 <212> TYPE: PRT
 32 <213> ORGANISM: B. subtilis
 34 <400> SEQUENCE: 1
 36 Met Ile Tyr Gly Ile Gly Leu Asp Ile Thr Glu Leu Lys Arg Ile Ala
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 39 Ser Met Ala Gly Arg Gln Lys Arg Phe Ala Glu Arg Ile Leu Thr Arg
 40 20 25 30
 42 Ser Glu Leu Asp Gln Tyr Tyr Glu Leu Ser Glu Lys Arg Lys Asn Glu
 43 35 40 45
 45 Phe Leu Ala Gly Arg Phe Ala Ala Lys Glu Ala Phe Ser Lys Ala Phe
 46 50 55 60
 48 Gly Thr Gly Ile Gly Arg Gln Leu Ser Phe Gln Asp Ile Glu Ile Arg
 49 65 70 75 80
 51 Lys Asp Gln Asn Gly Lys Pro Tyr Ile Ile Cys Thr Lys Leu Ser Gln
 52 85 90 95
 54 Ala Ala Val His Val Ser Ile Thr His Thr Lys Glu Tyr Ala Ala Ala
 55 100 105 110
 57 Gln Val Val Ile Glu Arg Leu Ser Ser
 58 115 120
 61 <210> SEQ ID NO: 2
 63 <211> LENGTH: 122
 65 <212> TYPE: PRT
 67 <213> ORGANISM: Aquifex
 69 <400> SEQUENCE: 2
 71 Met Ile Gly Val Asp Ile Val Lys Asn Glu Arg Ile Lys Asp Ala Leu
 72 1 5 10 15
 74 Glu Arg Phe Gly Asp Lys Phe Leu Asp Arg Ile Tyr Thr Lys Arg Glu
 75 20 25 30
 77 Leu Glu Tyr Cys Tyr Ala His Cys Asp Phe Leu Pro Cys Leu Ala Ala
 78 35 40 45
 80 Arg Trp Ala Gly Lys Glu Ala Val Leu Lys Ala Phe Tyr Thr Glu Phe

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| | | | | |
|-----|---|-----|-----|----|
| 81 | 50 | 55 | 60 | |
| 83 | Lys Ile Phe Leu Arg Phe Lys Glu Ile Glu Ile Leu Gly Asn Arg Gly | | | |
| 84 | 65 | 70 | 75 | 80 |
| 86 | Arg Pro Pro Thr Val Val Ile Asn Arg Glu Gly Val Glu Glu Ile Leu | | | |
| 87 | 85 | 90 | 95 | |
| 89 | Lys Asn Tyr Glu Val Ile Val Ser Leu Ser His Glu Arg Asp Tyr Ser | | | |
| 90 | 100 | 105 | 110 | |
| 92 | Val Ala Val Ala Tyr Ile Lys Lys Lys Ser | | | |
| 93 | 115 | 120 | | |
| 96 | <210> SEQ ID NO: 3 | | | |
| 98 | <211> LENGTH: 122 | | | |
| 100 | <212> TYPE: PRT | | | |
| 102 | <213> ORGANISM: Chlamydophila | | | |
| 104 | <400> SEQUENCE: 3 | | | |
| 106 | Met Glu Ile Ile His Ile Gly Thr Asp Ile Ile Glu Ile Ser Arg Ile | | | |
| 107 | 1 | 5 | 10 | 15 |
| 109 | Arg Glu Ala Ile Ala Thr His Gly Asn Arg Leu Leu Asn Arg Ile Phe | | | |
| 110 | 20 | 25 | 30 | |
| 112 | Thr Glu Ala Glu Gln Lys Tyr Cys Leu Glu Lys Thr Asp Pro Ile Pro | | | |
| 113 | 35 | 40 | 45 | |
| 115 | Ser Phe Ala Gly Arg Phe Ala Gly Lys Glu Ala Val Ala Lys Ala Leu | | | |
| 116 | 50 | 55 | 60 | |
| 118 | Gly Thr Gly Ile Gly Ser Val Val Ala Trp Lys Asp Ile Glu Val Phe | | | |
| 119 | 65 | 70 | 75 | 80 |
| 121 | Lys Val Ser His Gly Pro Glu Val Leu Leu Pro Ser His Val Tyr Ala | | | |
| 122 | 85 | 90 | 95 | |
| 124 | Lys Ile Gly Ile Ser Lys Val Ile Leu Ser Ile Ser His Cys Lys Glu | | | |
| 125 | 100 | 105 | 110 | |
| 127 | Tyr Ala Thr Ala Thr Ala Ile Ala Leu Ala | | | |
| 128 | 115 | 120 | | |
| 131 | <210> SEQ ID NO: 4 | | | |
| 133 | <211> LENGTH: 119 | | | |
| 135 | <212> TYPE: PRT | | | |
| 137 | <213> ORGANISM: Helicobacter | | | |
| 139 | <400> SEQUENCE: 4 | | | |
| 141 | Met Ile Gly Ile Asp Ile Val Ser Ile Ala Arg Ile Glu Lys Cys Val | | | |
| 142 | 1 | 5 | 10 | 15 |
| 144 | Lys Arg Phe Lys Met Lys Phe Leu Glu Arg Phe Leu Ser Pro Ser Glu | | | |
| 145 | 20 | 25 | 30 | |
| 147 | Ile Val Leu Cys Lys Asp Lys Ser Ser Ser Ile Ala Gly Phe Phe Ala | | | |
| 148 | 35 | 40 | 45 | |
| 150 | Leu Lys Glu Ala Cys Ser Lys Ala Leu Gln Val Gly Ile Gly Lys Glu | | | |
| 151 | 50 | 55 | 60 | |
| 153 | Leu Ser Phe Leu Asp Ile Lys Ile Ser Lys Ser Pro Lys Asn Ala Pro | | | |
| 154 | 65 | 70 | 75 | 80 |
| 156 | Leu Ile Thr Leu Ser Lys Glu Lys Met Asp Tyr Phe Asn Ile Gln Ser | | | |
| 157 | 85 | 90 | 95 | |
| 159 | Leu Ser Ala Ser Ile Ser His Asp Ala Gly Phe Ala Ile Ala Val Val | | | |
| 160 | 100 | 105 | 110 | |

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Input Set : A:\2368-12.ST25.txt

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162 Val Val Ser Ser Ser Asn Glu
163 115
166 <210> SEQ ID NO: 5
168 <211> LENGTH: 119
170 <212> TYPE: PRT
172 <213> ORGANISM: *Staphylococcus*
174 <400> SEQUENCE: 5
176 Met Ile His Gly Ile Gly Val Asp Leu Ile Glu Ile Asp Arg Ile Gln
177 1 5 10 15
179 Ala Leu Tyr Ser Lys Gln Pro Lys Leu Val Glu Arg Ile Leu Thr Lys
180 20 25 30
182 Asn Glu Gln His Lys Phe Asn Asn Phe Thr His Glu Gln Arg Lys Ile
183 35 40 45
185 Glu Phe Leu Ala Gly Arg Phe Ala Thr Lys Glu Ala Phe Ser Lys Ala
186 50 55 60
188 Leu Gly Thr Gly Leu Gly Lys His Val Ala Phe Asn Asp Ile Asp Cys
189 65 70 75 80
191 Tyr Asn Asp Glu Leu Gly Lys Pro Lys Ile Asp Tyr Glu Gly Phe Ile
192 85 90 95
194 Val His Val Ser Ile Ser His Thr Glu His Tyr Ala Met Ser Gln Val
195 100 105 110
197 Val Leu Glu Lys Ser Ala Phe
198 115
201 <210> SEQ ID NO: 6
203 <211> LENGTH: 169
205 <212> TYPE: PRT
207 <213> ORGANISM: *Thermotoga*
209 <400> SEQUENCE: 6
211 Met Ile Val Gly Val Gly Ile Asp Val Leu Glu Val Glu Arg Val Pro
212 1 5 10 15
214 Glu Lys Phe Ala Glu Arg Ile Leu Gly Glu Ser Glu Lys Arg Leu Phe
215 20 25 30
217 Leu Thr Arg Lys Arg Arg Arg Glu Phe Ile Ala Gly Arg Phe Ala Leu
218 35 40 45
220 Lys Glu Ala Phe Phe Lys Ala Leu Gly Thr Gly Leu Asn Gly His Ser
221 50 55 60
223 Phe Thr Asp Val Glu Phe Leu Glu Ser Asn Gly Lys Pro Val Leu Cys
224 65 70 75 80
226 Val His Lys Asp Phe Gly Phe Phe Asn Tyr Ala His Val Ser Leu Ser
227 85 90 95
229 His Asp Arg Phe Ala Val Ala Leu Val Val Leu Glu Lys Arg Lys Gly
230 100 105 110
232 Asp Ile Ile Val Glu Gly Asp Glu Ser Phe Leu Arg Lys Arg Phe Glu
233 115 120 125
235 Val Leu Glu Arg Ser Val Glu Gly Trp Glu Ile Glu Thr Ser Leu Pro
236 130 135 140
238 Pro Phe Thr Leu Lys Lys Leu Leu Glu Ser Ser Gly Cys Arg Leu Val
239 145 150 155 160
241 Arg Tyr Gly Asn Ile Leu Ile Gly Glu

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Input Set : A:\2368-12.ST25.txt
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242 165
245 <210> SEQ ID NO: 7
247 <211> LENGTH: 126
249 <212> TYPE: PRT
251 <213> ORGANISM: Escherichia
253 <400> SEQUENCE: 7
255 Met Ala Ile Leu Gly Leu Gly Thr Asp Ile Val Glu Ile Ala Arg Ile
256 1 5 10 15
258 Glu Ala Val Ile Ala Arg Ser Gly Asp Arg Leu Ala Arg Arg Val Leu
259 20 25 30
261 Ser Asp Asn Glu Trp Ala Ile Trp Lys Thr His His Gln Pro Val Arg
262 35 40 45
264 Phe Leu Ala Lys Arg Phe Ala Val Lys Glu Ala Ala Lys Ala Phe
265 50 55 60
267 Gly Thr Gly Ile Arg Asn Gly Leu Ala Phe Asn Gln Phe Glu Val Phe
268 65 70 75 80
270 Asn Asp Glu Leu Gly Lys Pro Arg Leu Arg Leu Trp Gly Glu Ala Leu
271 85 90 95
273 Lys Leu Ala Glu Lys Leu Gly Val Ala Asn Met His Val Thr Leu Ala
274 100 105 110
276 Asp Glu Arg His Tyr Ala Cys Ala Thr Val Ile Ile Glu Ser
277 115 120 125
280 <210> SEQ ID NO: 8
282 <211> LENGTH: 126
284 <212> TYPE: PRT
286 <213> ORGANISM: Rickettsia
288 <400> SEQUENCE: 8
290 Met Leu Ile Gly Val Gly Thr Asp Ile Val Gln Ile Pro Arg Ile Glu
291 1 5 10 15
293 Lys Ile Leu Asn Ile Tyr Gln Glu Leu Phe Ala Lys Ile Leu Ala
294 20 25 30
296 Leu Lys Glu Leu Lys Gln Phe Thr Leu Leu Asn Lys Thr Asn His Ala
297 35 40 45
299 Thr Phe Leu Ala Lys Arg Phe Ser Ala Lys Glu Ala Val Ser Lys Ala
300 50 55 60
302 Phe Gly Val Gly Ile Gly Arg Gly Ile Asn Phe Lys Asp Ile Thr Ile
303 65 70 75 80
305 Leu Asn Asp Asn Leu Gly Lys Pro Thr Val Glu Ile Ser Ser His Tyr
306 85 90 95
308 Thr Asn Lys Leu Ala Pro Phe Asn Ile His Leu Ser Leu Ser Asp Asp
309 100 105 110
311 Tyr Pro Ile Cys Ile Ala Phe Ala Ile Ile Glu Ser Asn Cys
312 115 120 125
315 <210> SEQ ID NO: 9
317 <211> LENGTH: 123
319 <212> TYPE: PRT
321 <213> ORGANISM: Streptomyces
323 <400> SEQUENCE: 9
326 Met Ser Ile Ile Gly Val Gly Ile Asp Val Ala Glu Val Glu Arg Phe

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Input Set : A:\2368-12.ST25.txt
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327 1 5 10 15
 329 Gly Ala Ala Leu Glu Arg Thr Pro Ala Leu Ala Gly Arg Leu Phe Leu
 330 20 25 30
 332 Glu Ser Glu Leu Leu Leu Pro Gly Gly Glu Arg Arg Gly Val Ala Ser
 333 35 40 45
 335 Leu Ala Ala Arg Phe Ala Ala Lys Glu Ala Leu Ala Lys Ala Leu Gly
 336 50 55 60
 338 Ala Pro Ala Gly Leu Leu Trp Thr Asp Ala Glu Val Trp Val Glu Ala
 339 65 70 75 80
 341 Gly Gly Arg Pro Arg Leu Arg Val Thr Gly Thr Val Ala Ala Arg Ala
 342 85 90 95
 344 Ala Glu Leu Gly Val Ala Ser Trp His Val Ser Leu Ser His Asp Ala
 345 100 105 110
 347 Gly Ile Ala Ser Ala Val Val Ile Ala Glu Gly
 348 115 120
 351 <210> SEQ ID NO: 10
 353 <211> LENGTH: 125
 355 <212> TYPE: PRT
 357 <213> ORGANISM: Treponema
 359 <400> SEQUENCE: 10
 361 Met Ile Ile Gly Val Gly Ile Asp Ile Val Glu Ile Glu Arg Phe Val
 362 1 5 10 15
 364 Ser Trp Thr His Asn Val Arg Leu Leu Arg Arg Phe Phe His Gln Glu
 365 20 25 30
 367 Glu Ile Val Asp Phe Phe Lys Asn His Met Arg Ala Gln Phe Leu Ala
 368 35 40 45
 370 Thr Arg Phe Ala Ala Lys Glu Ala Phe Gly Lys Ala Leu Gly Thr Gly
 371 50 55 60
 373 Leu Arg Asn Met Glu Leu Arg Asn Ile Arg Val Cys Gln Asn Gly Trp
 374 65 70 75 80
 376 Gly Lys Pro Arg Leu Glu Val Tyr Gly Ala Ala Gln Ala Met Leu Ala
 377 85 90 95
 379 Ala Thr Gly Gly Thr His Ile Gln Val Ser Leu Thr His Glu Arg Glu
 380 100 105 110
 382 Val Ala Ser Ala Ile Val Ile Ile Glu Gly Glu Pro Leu
 383 115 120 125
 386 <210> SEQ ID NO: 11
 388 <211> LENGTH: 121
 390 <212> TYPE: PRT
 392 <213> ORGANISM: Bacillus
 394 <400> SEQUENCE: 11
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 397 1 5 10 15
 399 Ser Met Ala Gly Arg Gln Lys Arg Phe Ala Glu Arg Ile Leu Thr Arg
 400 20 25 30
 402 Ser Glu Leu Asp Gln Tyr Tyr Glu Leu Ser Glu Lys Arg Lys Asn Glu
 403 35 40 45
 405 Phe Leu Ala Gly Arg Phe Ala Ala Lys Glu Ala Phe Ser Lys Ala Phe
 406 50 55 60

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/771,383

DATE: 12/20/2001

TIME: 14:15:06

Input Set : A:\2368-12.ST25.txt

Output Set: N:\CRF3\12202001\I771383.raw